

SUPERSCOPE®

BY **marantz**®

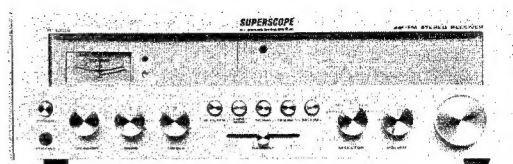
STEREO RECEIVER

Model R-1302

SERVICE DATA

— Dec. 1977 —

SUPERSCOPE INC.
20525 NORDHOFF STREET
CHATSWORTH, CALIFORNIA • 91311 • U.S.A.



TECHNICAL SPECIFICATIONS

AUDIO SECTION

Rated Power Output (continuous average per channel
with all channels driven, or in 2-channel mode) . . . 35 W
Power Band 40 Hz ~ 20 kHz
Total Harmonic Distortion 1%
Load Impedance 8 Ω
Input Sensitivity at 1,000 Hz
Phono 2.8 mV for 35 W output with 8 Ω load
High Level 180 mV for 35 W output with 8 Ω load
Frequency Response 15 Hz ~ 70 kHz, -3 dB
Intermodulation Distortion Less than 1.0% at rated
power output with 8 Ω load
Damping Factor Greater than 44 with 8 Ω load
Dynamic Range (PHONO input to TAPE output) . . 100 dB
Equivalent Input Noise (from PHONO) . . . Less than 0.8 μ V
for rated power output with 8 Ω load
High Level Hum and Noise 0.6 mV
Channel Separation at 1,000 Hz 56 dB
Input Impedance at 1,000 Hz
Phono 47 k Ω
High Level 100 k Ω

FM SECTION

Tuning Frequency Range 88 ~ 108 MHz
Usable Sensitivity 2.0 μ V
Selectivity 56 dB
Capture Ratio 2.3 dB
Image Rejection Ratio at 106 MHz 48 dB
Signal-to-Noise Ratio
Monaural Mode 78 dB
Stereo Mode 60 dB

Total Harmonic Distortion

Monaural Mode 0.2%
Stereo Mode 0.4%
Frequency Response (ref. 50 μ sec
de-emphasis) 30 Hz ~ 15 kHz, \pm 1.0 dB
Stereo Separation at 1 kHz 46 dB
Antenna Impedance 300 Ω balanced
AM Suppression 54 dB

AM SECTION

Tuning Frequency Range 525 ~ 1,605 kHz
Usable Sensitivity 10 μ V
Selectivity 36 dB
Image Rejection Ratio at 1,400 kHz 42 dB
Signal-to-Noise Ratio 52 dB
Frequency Response 15 Hz ~ 2.7 kHz, -3 dB
Total Harmonic Distortion 3.0%

GENERAL

Power Requirements 110, 120, 220 or 240V AC,
50 Hz
Nominal Power Consumption at
Idling 25 W
Rated Power Output 160 W
Maximum Operation 170 W
Cabinet Dimensions
Height 4-13/16" (121 mm)
Width 16-9/16" (420 mm)
Depth 11-1/16" (281 mm)
Net Weight 20.2 lbs (9.6 kg)

*These specifications and exterior designs may be changed for improvement without notice.



ALIGNMENT PROCEDURES

1. Set the output VOLUME control at maximum position.
2. A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
FM IF ALIGNMENT					
1	Sweep generator to point ① through 5pF capacitor	10.7 MHz marker at 10.6, 10.7 and 10.8 MHz	Oscilloscope to point ⑤ through diode (1S24735)	Quiet point on band.	L105 for maximum and symmetric response.
2			Oscilloscope to point ⑥ (J116)		L106 for straight and symmetric "S" curve response.
3	Repeat steps 1 and 2.				
FM IF ALIGNMENT					
1	RF generator to FM antenna terminals ③ through matching network (300 ohms, balanced) (Maintain RF level below limit.)	87 MHz	VTVM to L or R channel output terminals (J003)	87 MHz with tuning gang closed.	L103 for maximum output.
2		109 MHz		109 MHz with tuning gang open.	CF-3 for maximum output.
3		90 MHz		90 MHz	L101, L102 for maximum output.
4		106 MHz		106 MHz	CF-1, CF-2 for maximum output.
5	Repeat steps 1 to 4.				
6	Check overall response curve and repeat above steps as necessary to obtain maximum sensitivity.				
7	No connection	No signal	DC VTVM 1-volt range to ⑥ (J116)	—	L106 secondary core (upper) for "0" voltage reading.
8	RF generator 1 mV output to FM antenna terminals ③ through matching network (300 ohms, balanced)	98 MHz	Distortion meter to ⑥ (J116)	98 MHz	L106 primary core (bottom) for minimum distortion.
9		98 MHz	DC VTVM to ① (J113) with it set to 3V range.	98 MHz	L107 for maximum output.
MUTING CIRCUIT ALIGNMENT					
1	RF generator 25μV output to FM antenna terminals ③ through matching network (300 ohms, balanced)	98 MHz	VTVM to R or L channel output terminals (J003)	98 MHz	R161 for 25μV threshold level. (During this adjustment turn the muting pushswitch "ON".)

MULTIPLEX ALIGNMENT PROCEDURES

(Selector switch in the "FM" position, Tape Monitor pushswitch "ON")

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM antenna terminals ③ through matching network (300 ohms, balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	Pilot (19 kHz)	Frequency counter to point ⑤ (J120)	98 MHz	R302 so that Frequency counter may precisely read 19 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel output terminal ① (J125)		R301 for maximum output and same separation in both channels.
3		Stereo, right (1,000 Hz)	VTVM to left channel output terminal ② (J123)		
4	Repeat steps 2 and 3.				

AM ALIGNMENT PROCEDURES

(Selector switch in the "AM" position)

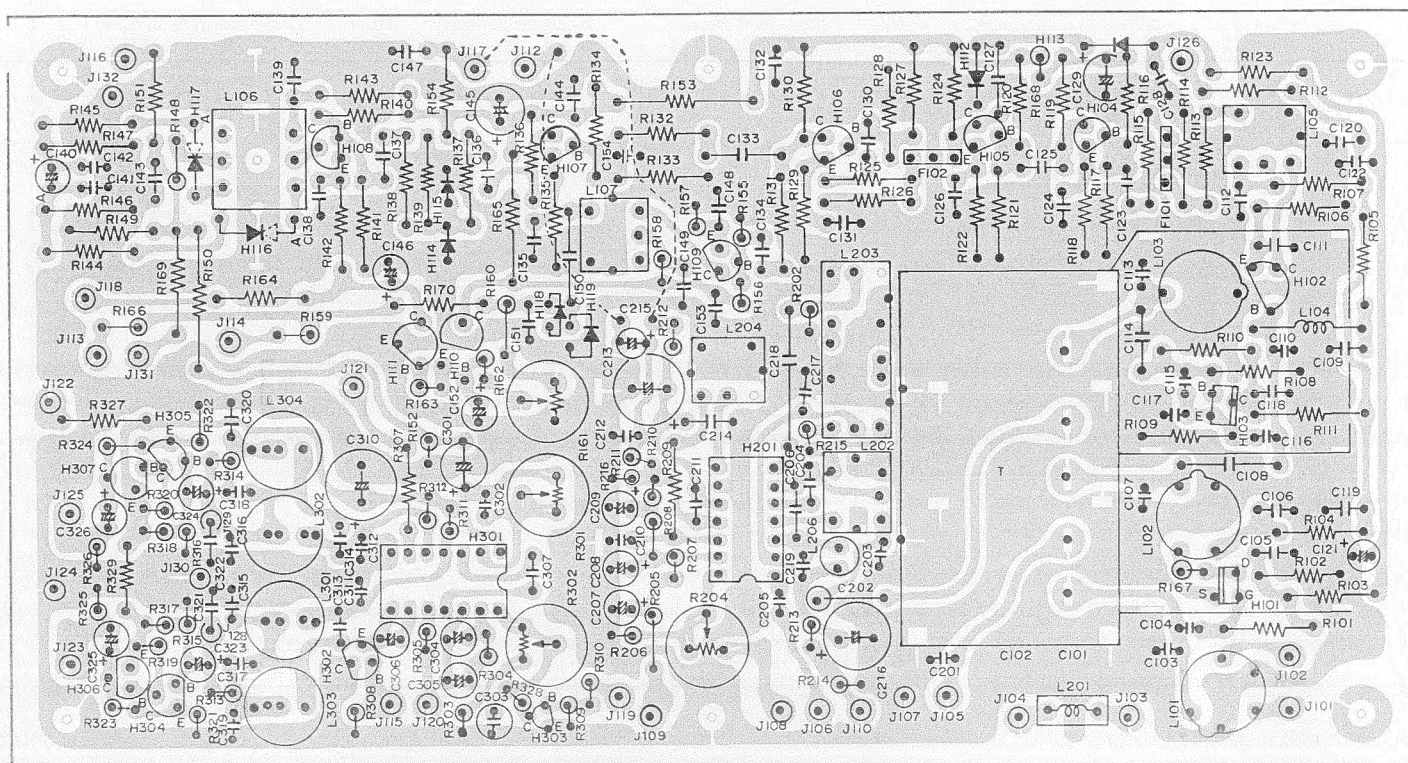
Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
AM IF ALIGNMENT					
1	Sweep generator to point Ⓐ (J105)	455 kHz marker	Oscilloscope to point Ⓑ (J112)	Quiet point on band.	L203, L204 for maximum and symmetric response.
2	Repeat step 1.				
AM RF ALIGNMENT					
1	RF generator to AM antenna terminals through IHF dummy	515 kHz	VTVM to L or R channel output terminals. (J003)	515 kHz with tuning gang closed.	L202 for maximum output.
2		1,650 kHz		1,650 kHz with tuning gang open.	CA-2 for maximum output.
3		600 kHz		600 kHz	L001 for maximum output.
4		1,400 kHz		1,400 kHz	CA-1 for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				
6	RF generator to AM antenna terminals through IHF dummy, 60 dB	1,000 kHz	—	1,000 kHz	R204 so that signal strength meter M001 may read 80%.

AUDIO ALIGNMENT PROCEDURES

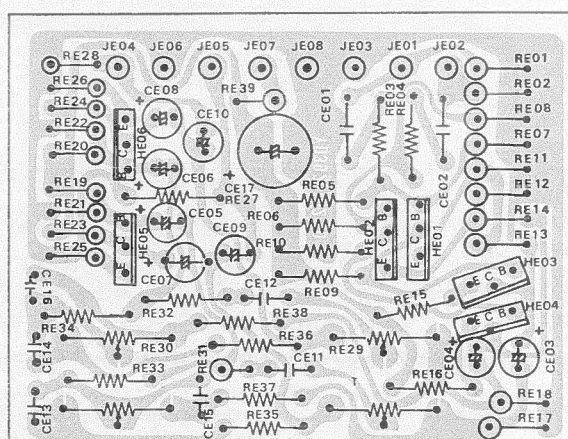
(Selector switch in the "AUX" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Adjust:
1	—	—	DC VTVM 0.5 or 1V range to output terminals with it set to 0.5 or 1V range.	R711, R712 for "zero" DC output.
2	AF oscillator to AUX terminal	1,000 Hz	Oscilloscope to output terminals (J006)	R733, R734 for no evidence of crossover distortion at 500mW output. CAUTION: Avoid excessive bias current (20mA ~ 30 mA at no signal).
3	Repeat steps 1 and 2.			

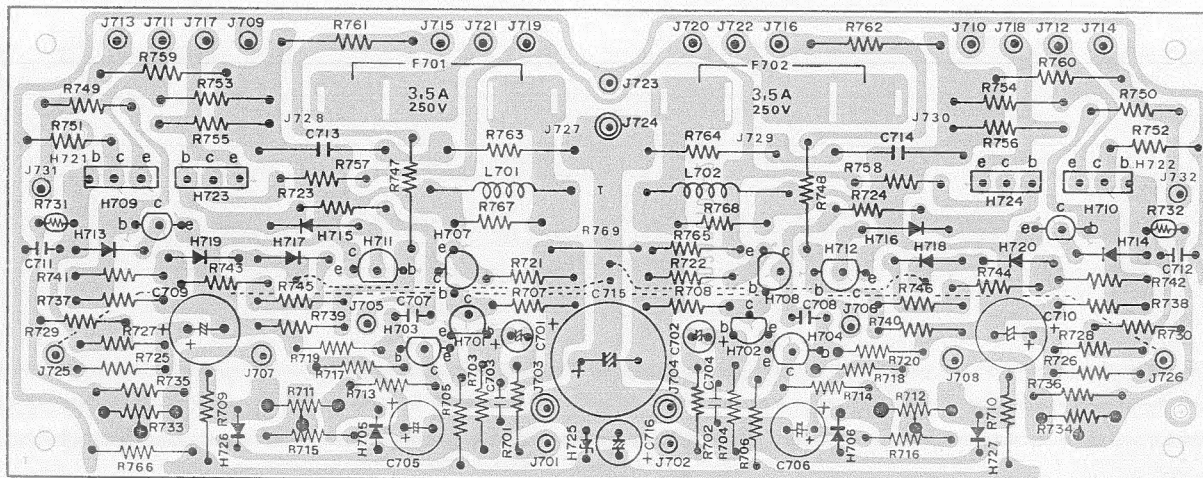
CIRCUIT BOARD DIAGRAMS (TOP VIEW)



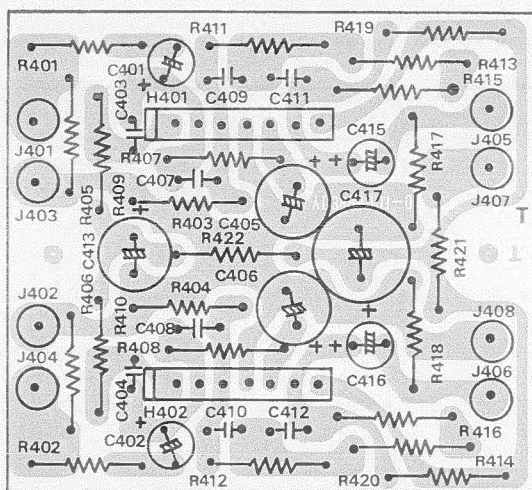
FM/AM TUNER BLOCK P100



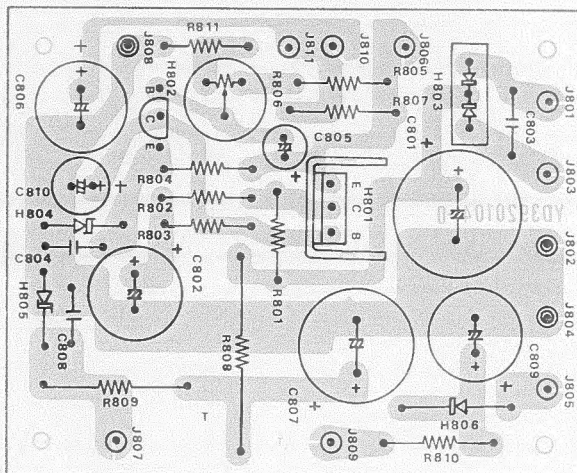
TONE CONTROL BLOCK PE01



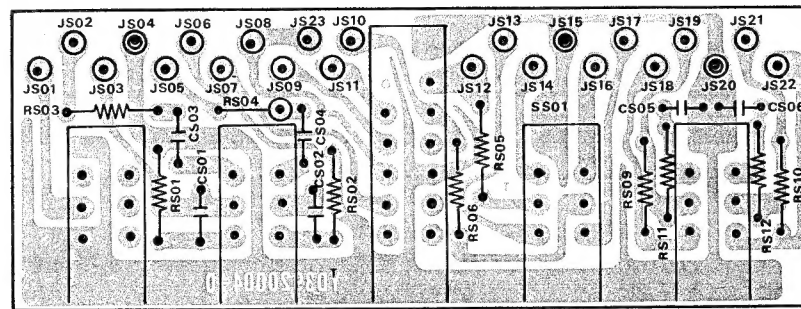
MAIN AMP BLOCK P700



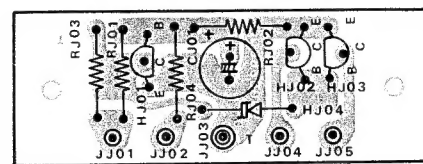
PHONO AMP BLOCK P400



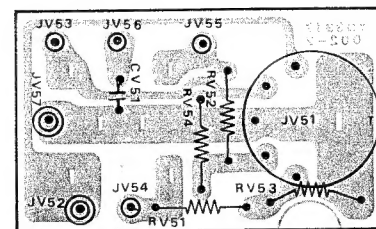
POWER SUPPLY BLOCK P800



SWITCH ASSEMBLY BLOCK PS01



MUTING BLOCK PJ01



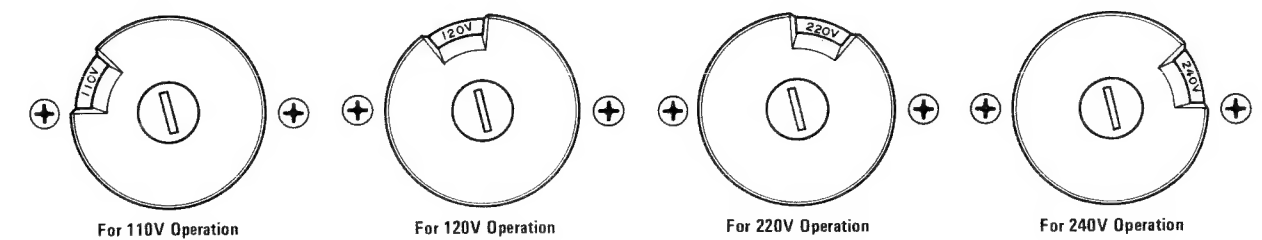
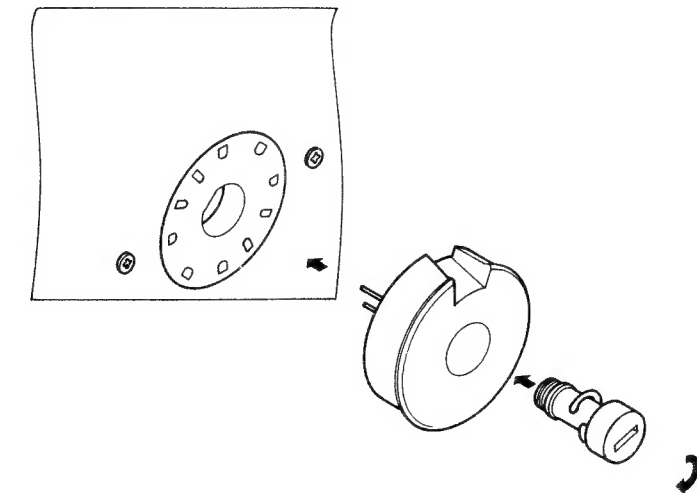
TAPE IN/OUT BLOCK PV51

VOLTAGE CONVERSION

The model R-1302 is equipped with a universal power transformer that may be adjusted to operate at 110 V, 120 V, 220 V or 240 V AC at 50 to 60 Hz.

To convert the unit to a different power source voltage, reposition conversion plug as shown in the illustration below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTPUT BEFORE CONVERTING VOLTAGE.

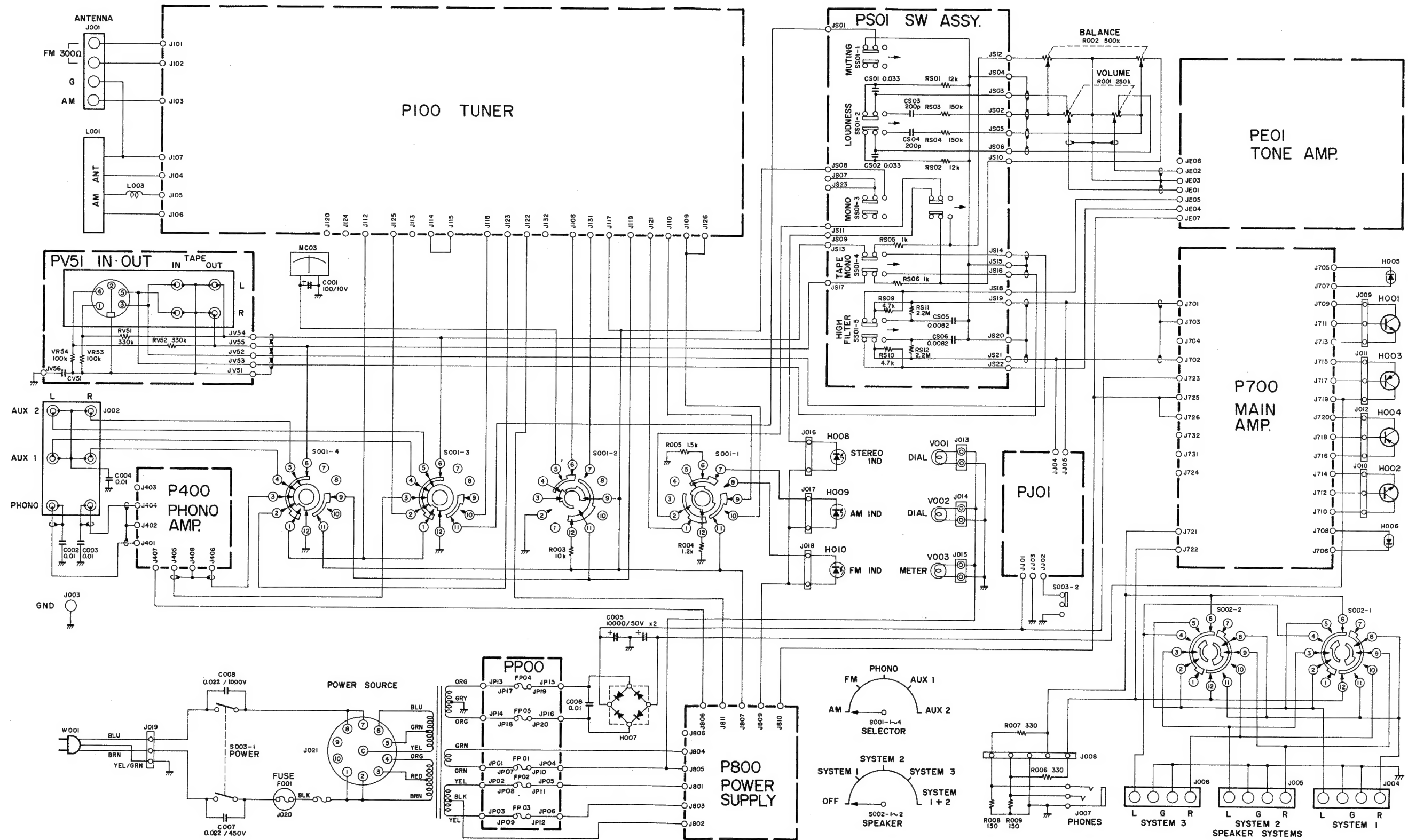


Instruction for the use in the range other than specified in FTZ codes

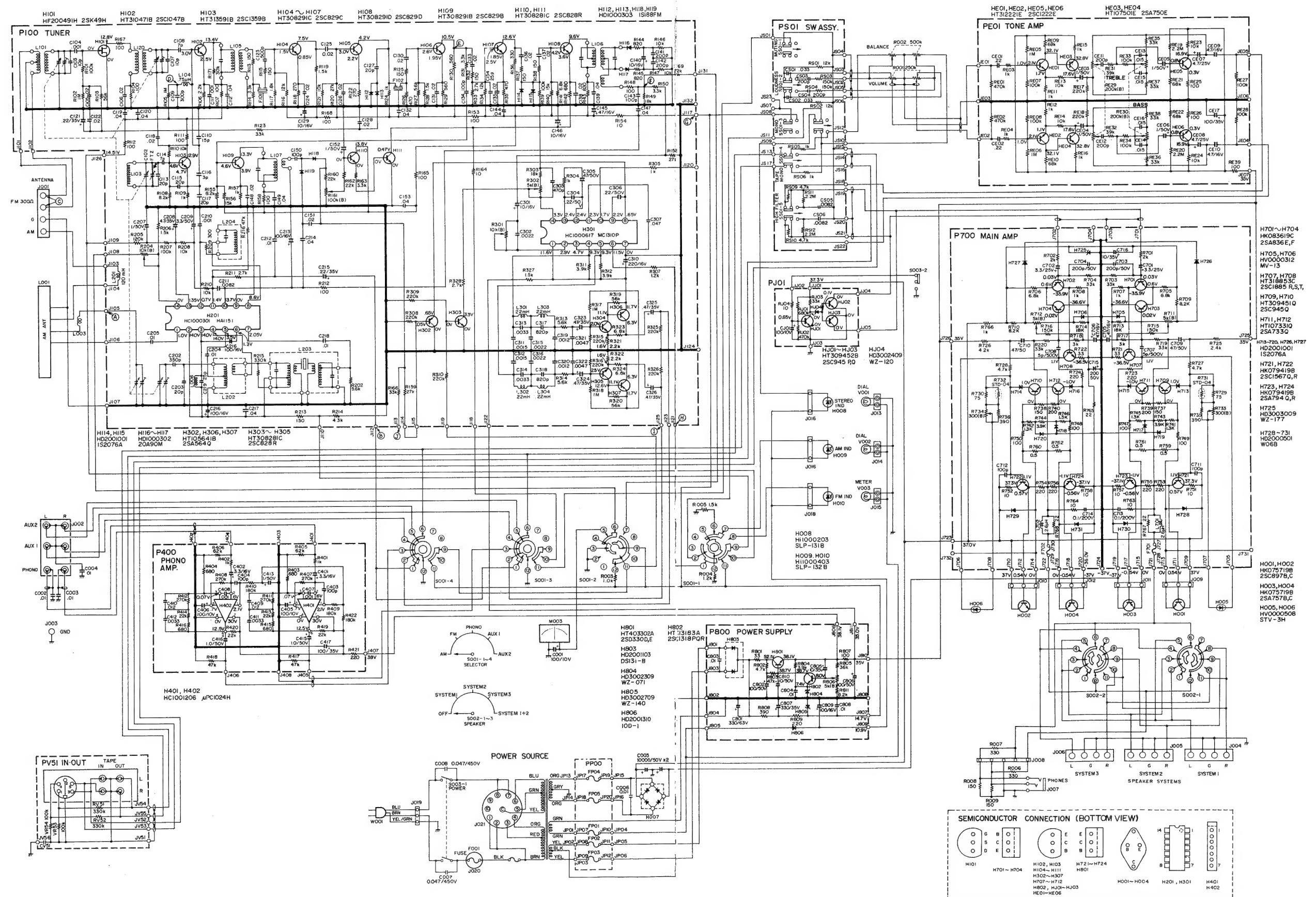
**Achtung für die Leute, die in dem Gebiet wohnen,
wo die FTZ-Bestimmungen vorherrschend sind.**

Sollte das Gerät, auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangsbereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorschule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

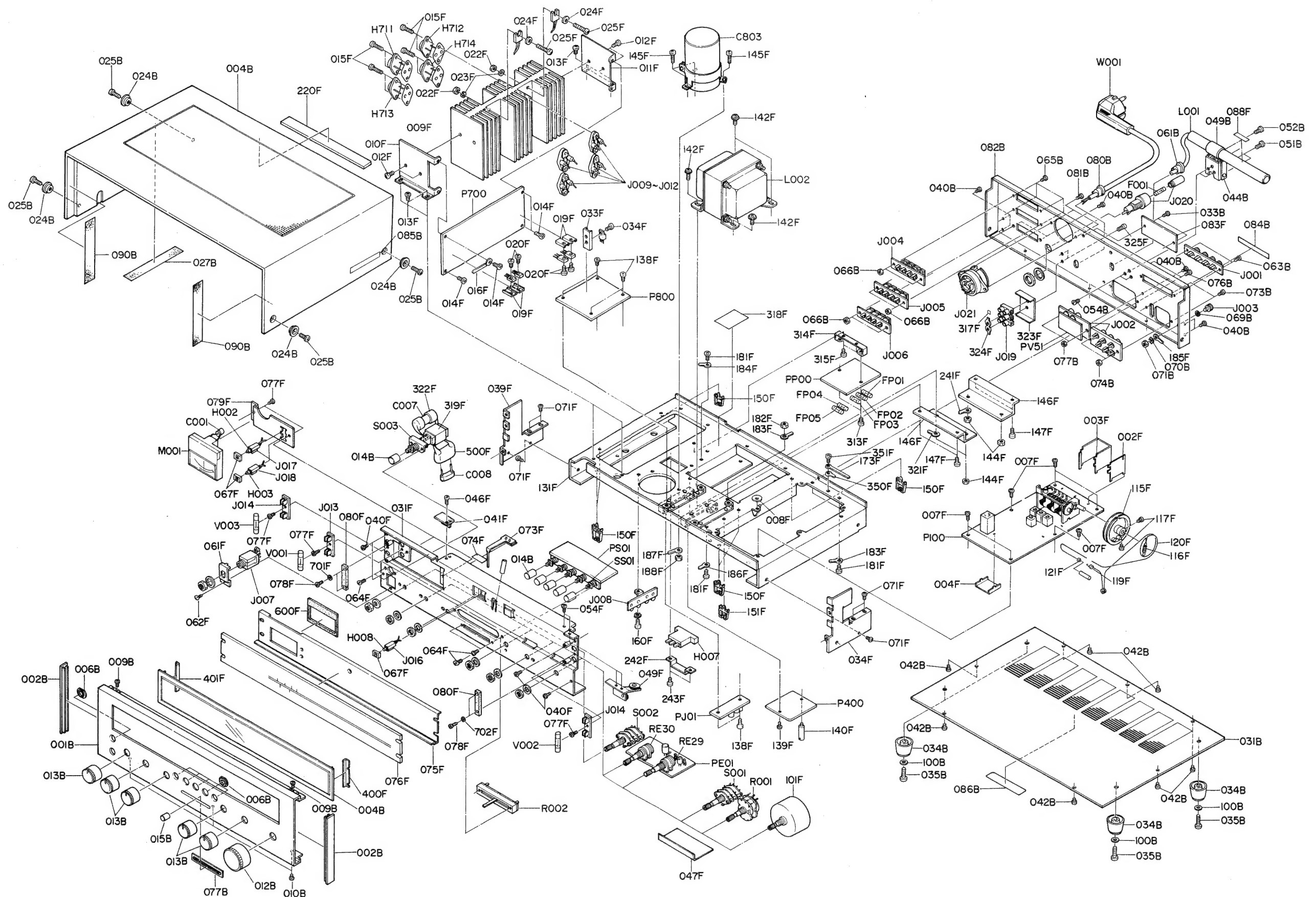
CONNECTION DIAGRAM



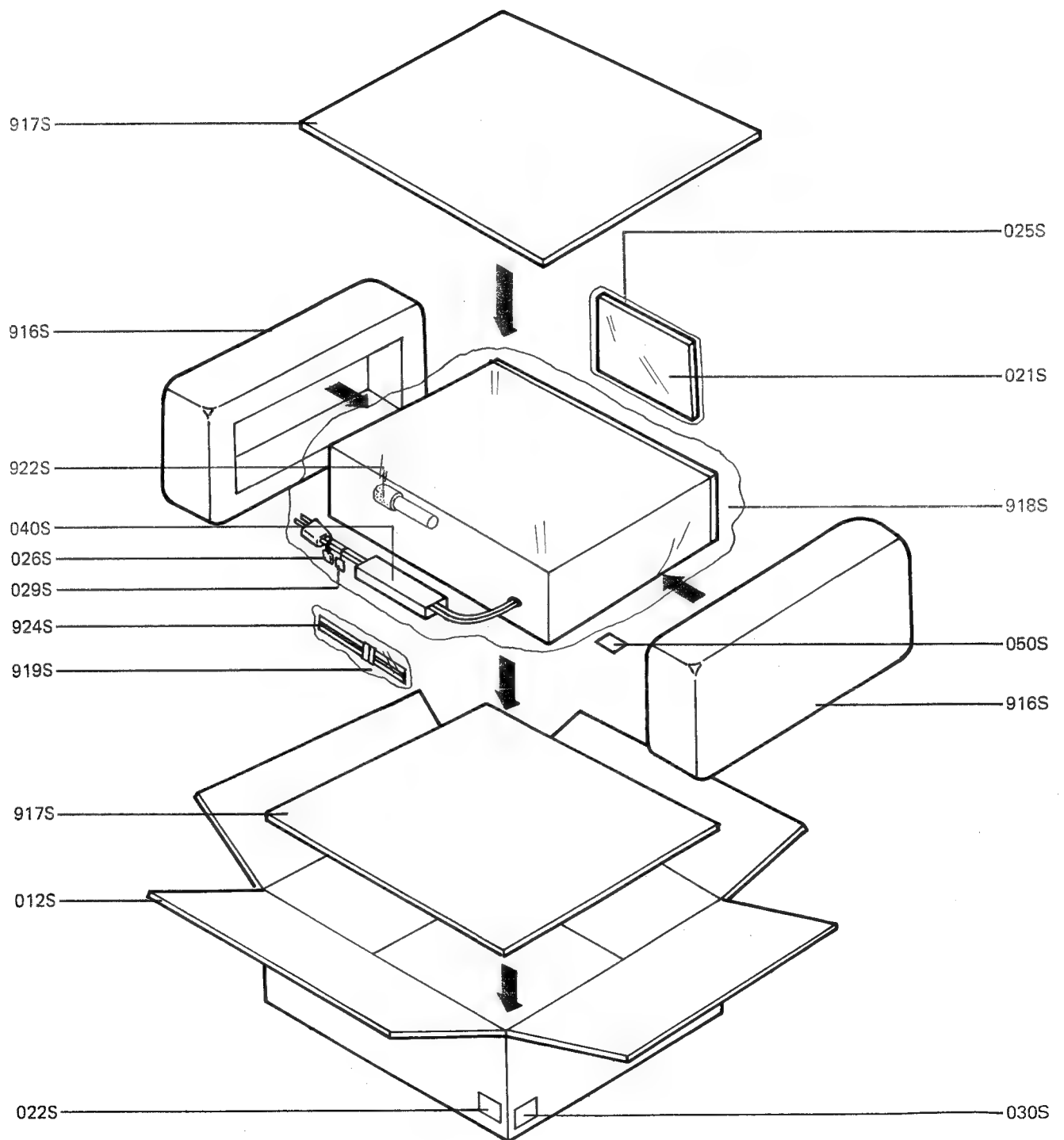
SCHEMATIC DIAGRAM



MECHANICAL EXPLODED VIEW



PACKING MATERIAL EXPLODED VIEW



PARTS LIST

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
A	1	3953063400	Front Panel Assembly, Gold
A1	1	3953063410	Front Panel Assembly, Black
001B	1	3953063014	Escutcheon, Gold
001B	1	3953063114	Escutcheon, Black
002B	2	3941063020	Escutcheon, Gold
002B	2	3941063120	Escutcheon, Black
004B	1	3941158010	Window
006B	6	2886259010	Bushing
007B	1	2854259010	Bushing
B	1	1202006400	Hook Assembly
119F	1	1202258010	Hook
120F	2	72080802A0	String
C	1	2219159410	Drum Assembly
115F	1	2219159010	Drum
116F	1	71101689L0	Spring
117F	2	51064019A9	P.H.M. Screw, P4x19
MECHANICAL PARTS			
P108	2	3444118050	Spacer
P109	2	2933118020	Spacer
P408	2	2933118020	Spacer
P708	20	2933118020	Spacer
P808	17	2933118020	Spacer
002F	1	2821109010	Shield
003F	1	3896109030	Shield
004B	1	3943064504	Case
004B	1	3943064513	Case, Wooden
004F	1	2850109020	Shield
007F	6	51570306B0	P. Tapped Screw, 3x6
008F	1	59030805P0	Washer
009B	2	51280306U0	B.H. Tapped Screw, B3x6ST
009F	1	3920267010	Heatsink
010B	3	51280306U0	B.H. Tapped Screw, B3x6ST
010F	1	3920160020	Bracket
011F	1	3920160030	Bracket
012B	1	3941154010	Knob
012F	4	51280306B0	B.H. Tapped Screw, B3x6ST
012S	1	3953801012	Packing Case
013B	5	3943154020	Knob
013F	4	51570306B0	P. Tapped Screw, 3x6
014B	6	3917154050	Knob
014F	4	51100305A9	B.H.M. Screw, B3x5
015B	1	3917154060	Knob
015F	8	51100316E9	B.H.M. Screw, B3x16
016F	1	1210005010	Clamper
019F	4	2904267020	Heatsink
020F	4	51102606S0	B.H.M. Screw, B2.6x6
021S	1	3951851010	Instructions
022F	2	53110303E9	Hexagon Nut
022S	1	9510911040	Label
023F	2	54040302N0	Spring Washer
024B	4	3906259010	Bushing
024F	2	54020301E0	Flat Washer, P.
025B	4	51100412S9	B.H.M. Screw, B4x12
025F	2	51100314B9	B.H.M. Screw, B3x12
025S	1	9013025010	Polyethylene Bag
026S	1	9560000042	Hang Tag
027B	1	3942056010	Buffer
029S	1	9560000090	Hang Tag

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
030S	4	9523015130	Serial No. Card
031B	1	3920257010	Lid
031F	1	3943160504	Bracket
033B	2	51760306B0	OS Tapped Screw, 3x6
033F	1	3905267010	Heatsink
034B	4	2872057010	Leg
034F	1	3943160510	Bracket
034F	1	51100304A9	B.H.M. Screw, B3x4
035B	4	51570418B0	P. Tapped Screw, 4x18
039F	1	3943160030	Bracket
040B	6	51100306S9	B.H.M. Screw, B3x6
040F	4	51100306A9	B.H.M. Screw, B3x6
040S	1	2864804010	Sleeve
041F	1	3943262620	Pulley
042B	7	51280306U0	B.H. Tapped Screw, B3x6ST
044B	1	2578160520	Bracket
046F	1	51280305B0	B.H. Tapped Screw, B3x5ST
047F	1	3899120010	Insulator
049B	1	3920271010	Holder
049F	1	3943262610	Pulley
050S	1	2731821010	Silicagel
051B	2	51280312U0	B.H. Tapped Screw, B3x12ST
052B	2	51280312U0	B.H. Tapped Screw, B3x12ST
054B	3	51100306S9	B.H.M. Screw, B3x16
054F	2	51100305A9	B.H.M. Screw, B3x5
061B	1	1455259030	Bushing
061F	1	3943160070	Bracket
062F	1	51280306B0	B.H. Tapped Screw, B3x6ST
063B	2	51280306U0	B.H. Tapped Screw, B3x6ST
064F	6	51100305A9	B.H.M. Screw, B3x5
065B	6	51100308S9	B.H.M. Screw, B3x8
066B	6	53110303A9	Hexagon Nut
067F	3	2978259060	Bushing
069B	1	54020401E0	Flat Washer, P.
070B	1	54050400R0	T.L. Washer OR
071B	1	53110403A9	Hexagon Nut
071F	6	51570306B0	P. Tapped Screw, 3x6
073B	2	51100308S9	B.H.M. Screw, B3x8
073F	1	3943103013	Pointer
074B	2	53110303A9	Hexagon Nut
074F	1	3943118020	Spacer
075F	1	3941063030	Escutcheon
076B	2	51100308S9	B.H.M. Screw, B3x8
076F	1	3943302010	Dial
077B	2	53110303A9	Hexagon Nut
077F	5	51280306B0	B.H. Tapped Screw, B3x6ST
078F	4	51062605A0	P.H.M. Screw, P2.6x5
079F	1	3943160040	Bracket
080B	1	1455259040	Bushing
080F	2	3941118010	Spacer
081B	2	51100308S9	B.H.M. Screw, B3x8
082B	1	3953160220	Bracket
083B	1	3953265040	Indicator
084B	1	9510911040	Label
085B	1	2932861012	Label
086B	1	2578861010	Label
088F	1	2506265060	Indicator
090B	2	3941056110	Buffer
100B	4	54040402A0	Spring Washer
101F	1	2873273500	Flywheel
121F	1	56382540G0	Eyelet
131F	1	3920105506	Chassis
138F	6	51100305A9	B.H.M. Screw, B3x5
139F	1	51100305A9	B.H.M. Screw, B3x5

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
140F	1	3918101010	Support
142F	4	51490410A9	L. Washer Screw, 4x10
144F	4	53110401A9	Hexagon Nut
145F	3	51570408B0	P. Tapped Screw, 4x8
146F	2	3920160040	Bracket
147F	4	51570306B0	P. Tapped Screw, 3x6
150F	5	2886005050	Clamper
152F	1	2886005030	Clamper
160F	1	51600306B0	Washer Screw, 3x6
173F	1	2871005010	Clamper
181F	3	51570306B0	P. Tapped Screw, 3x6
182F	1	53110303A9	Hexagon Nut
183F	1	62030049W0	Lug
184F	1	62030049W0	Lug
185F	1	62040029W0	Lug
186F	1	62030049W0	Lug
187F	2	62040029W0	Lug
188F	2	53110403A9	Hexagon Nut
220F	1	2886118020	Spacer
241F	1	2821005010	Clamper
242F	1	2819005010	Clamper
243F	2	51100304A9	B.H.M. Screw, B3x4
313F	2	51100306A9	B.H.M. Screw, B3x6
314F	1	3889160110	Bracket
315F	2	51100305A9	B.H.M. Screw, B3x5
317F	1	2882861020	Label
318F	1	9510221010	Label
319F	1	3951120010	Insulator
321F	1	2821005010	Clamper
322F	2	2970120030	Insulator
323F	1	3953120030	Insulator
324F	1	2970005010	Clamper
325F	2	51100314S9	B.H.M. Screw, B3x14
350F	1	62030049W0	Lug
351F	1	51570306B0	P. Tapped Screw, 3x6
400F	1	3941053010	Cover
401F	1	3941053110	Cover
500F	1	3926120010	Insulator
600F	1	3941118020	Spacer
701F	2	54050300R0	T.L. Washer OR
702F	2	54020301E0	Flat Washer, P.
915F	2	3920265100	Indicator
916S	2	3906803010	Partitioner
917S	2	3941807010	Reinforcing
918S	1	9014535350	Polyethylene Bag
919S	1	9011830010	Polyethylene Bag
920S	1	9013025010	Polyethylene Bag
922S	1	2819056010	Buffer
924S	1	ZA02000080	External Antenna, FM
			ELECTRICAL PARTS
CE01	1	DF17224010	Cap., Film, 0.22 μ F, 50V
CE02	1	DF17224010	Cap., Film, 0.22 μ F, 50V
CE03	1	EE10505050	Cap., Elect., 1 μ F, 50V
CE04	1	EE10505050	Cap., Elect., 1 μ F, 50V
CE05	1	EE10505050	Cap., Elect., 1 μ F, 50V
CE06	1	EE10505050	Cap., Elect., 1 μ F, 50V
CE07	1	EE47502550	Cap., Elect., 4.7 μ F, 25V
CE08	1	EE47502550	Cap., Elect., 4.7 μ F, 25V
CE09	1	EQ47501610	Cap., Elect., 4.7 μ F, 16V
CE10	1	EQ47501610	Cap., Elect., 4.7 μ F, 16V

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
CE11	1	DD16201010	Cap., Ceramic, 200pF, 50V
CE12	1	DD16201010	Cap., Ceramic, 200pF, 50V
CE13	1	DF16153010	Cap., Film, 0.015 μ F, 50V
CE14	1	DF16153010	Cap., Film, 0.015 μ F, 50V
CE15	1	DF16153010	Cap., Film, 0.015 μ F, 50V
CE16	1	DF16153010	Cap., Film, 0.015 μ F, 50V
CE17	1	EA10703590	Cap., Elect., 100 μ F, 35V
HE01	1	HT312221E0	Transistor, 2SC1222 E
HE02	1	HT312221E0	Transistor, 2SC1222 E
HE03	1	HT107501E0	Transistor, 2SA750 E
HE04	1	HT107501E0	Transistor, 2SA750 E
HE05	1	HT312221E0	Transistor, 2SC1222 E
HE06	1	HT312221E0	Transistor, 2SC1222 E
JE01	1	YP10001130	Plug
JE02	1	YP10001130	Plug
JE03	1	YP10001130	Plug
JE04	1	YP10001130	Plug
JE05	1	YP10001130	Plug
JE06	1	YP10001130	Plug
JE07	1	YP10001130	Plug
PE01	1	YD39201020	P.W. Board, Tone Amp
	1	ZZ39531020	P.W. Board Assembly
RE01	1	RT05474140	Res., Fixed, 470k Ω \pm 5%, $\frac{1}{4}$ W
RE02	1	RT05474140	Res., Fixed, 470k Ω \pm 5%, $\frac{1}{4}$ W
RE03	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE04	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE05	1	RT05155140	Res., Fixed, 1.5M Ω \pm 5%, $\frac{1}{4}$ W
RE06	1	RT05155140	Res., Fixed, 1.5M Ω \pm 5%, $\frac{1}{4}$ W
RE07	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE08	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE09	1	RT05683140	Res., Fixed, 68k Ω \pm 5%, $\frac{1}{4}$ W
RE10	1	RT05683140	Res., Fixed, 68k Ω \pm 5%, $\frac{1}{4}$ W
RE11	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE12	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE13	1	RT05103140	Res., Fixed, 10k Ω \pm 5%, $\frac{1}{4}$ W
RE14	1	RT05103140	Res., Fixed, 10k Ω \pm 5%, $\frac{1}{4}$ W
RE15	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE16	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
RE17	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W
RE18	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W
RE19	1	RT05225140	Res., Fixed, 2.2M Ω \pm 5%, $\frac{1}{4}$ W
RE20	1	RT05225140	Res., Fixed, 2.2M Ω \pm 5%, $\frac{1}{4}$ W
RE21	1	RT05683140	Res., Fixed, 68k Ω \pm 5%, $\frac{1}{4}$ W
RE22	1	RT05683140	Res., Fixed, 68k Ω \pm 5%, $\frac{1}{4}$ W
RE23	1	RT05103140	Res., Fixed, 10k Ω \pm 5%, $\frac{1}{4}$ W
RE24	1	RT05103140	Res., Fixed, 10k Ω \pm 5%, $\frac{1}{4}$ W
RE25	1	RT05101140	Res., Fixed, 100 Ω \pm 5%, $\frac{1}{4}$ W
RE26	1	RT05101140	Res., Fixed, 100 Ω \pm 5%, $\frac{1}{4}$ W
RE27	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE28	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE29	1	RM02040010	Res., Variable, 200k Ω (B), Treble
RE30	1	RM02040010	Res., Variable, 200k Ω (B), Bass
RE31	1	RT05393140	Res., Fixed, 39k Ω \pm 5%, $\frac{1}{4}$ W
RE32	1	RT05393140	Res., Fixed, 39k Ω \pm 5%, $\frac{1}{4}$ W
RE33	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE34	1	RT05104140	Res., Fixed, 100k Ω \pm 5%, $\frac{1}{4}$ W
RE35	1	RT05333140	Res., Fixed, 33k Ω \pm 5%, $\frac{1}{4}$ W
RE36	1	RT05333140	Res., Fixed, 33k Ω \pm 5%, $\frac{1}{4}$ W
RE37	1	RT05333140	Res., Fixed, 33k Ω \pm 5%, $\frac{1}{4}$ W
RE38	1	RT05333140	Res., Fixed, 33k Ω \pm 5%, $\frac{1}{4}$ W
RE39	1	RT05101140	Res., Fixed, 100 Ω \pm 5%, $\frac{1}{4}$ W
CJ01	1	EA10701090	Cap., Elect., 100 μ F, 10V

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
HJ01	1	HT309452B0	Transistor, 2SC945 P or Q
HJ02	1	HT309452B0	Transistor, 2SC945 P or Q
HJ03	1	HT309452B0	Transistor, 2SC945 P or Q
HJ04	1	HD30024090	Zener, WZ-120
JJ01	1	YP10001130	Plug
JJ02	1	YP10001130	Plug
JJ03	1	YP10001130	Plug
JJ04	1	YP10001130	Plug
JJ05	1	YP10001130	Plug
PJ01	1	YD39200060	P.W. Board, Muting
	1	ZZ39200060	P.W. Board Assembly
RJ01	1	RT05684140	Res., Fixed, 680k Ω ±5%, ¼W
RJ02	1	RT05474140	Res., Fixed, 470k Ω ±5%, ¼W
RJ03	1	RT05333140	Res., Fixed, 33k Ω ±5%, ¼W
RJ04	1	RT05100140	Res., Fixed, 10 Ω ±5%, ¼W
FP01	1	FS10350800	Fuse, 3.5AT 250V (SEMKO)
FP02	1	FS10100800	Fuse, 1AT 250V (SEMKO)
FP03	1	FS10100800	Fuse, 1AT 250V (SEMKO)
FP04	1	FS10350800	Fuse, 3.5AT 250V (SEMKO)
FP05	1	FS10350800	Fuse, 3.5AT 250V (SEMKO)
JP01	1	YP10001130	Plug
JP02	1	YP10001130	Plug
JP03	1	YP10001130	Plug
JP04	1	YP10001130	Plug
JP05	1	YP10001130	Plug
JP06	1	YP10001130	Plug
JP07	1	YP10001130	Plug
JP08	1	YP10001130	Plug
JP09	1	YP10001130	Plug
JP10	1	YP10001130	Plug
JP11	1	YJ08000200	Jack, Fuse Holder
JP12	1	YJ08000200	Jack, Fuse Holder
JP13	1	YJ08000200	Jack, Fuse Holder
JP14	1	YJ08000200	Jack, Fuse Holder
JP15	1	YJ08000200	Jack, Fuse Holder
JP16	1	YJ08000200	Jack, Fuse Holder
JP17	1	YJ08000200	Jack, Fuse Holder
JP18	1	YJ08000200	Jack, Fuse Holder
JP19	1	YJ08000200	Jack, Fuse Holder
JP20	1	YJ08000200	Jack, Fuse Holder
PP01	1	YD39200090	P.W. Board, Fuse
	1	ZZ39531090	P.W. Board Assembly
CS01	1	DF16333010	Cap., Film, 0.033 μ F, 50V
CS02	1	DF16333010	Cap., Film, 0.033 μ F, 50V
CS03	1	DD16201010	Cap., Ceramic, 200pF, 50V
CS04	1	DD16201010	Cap., Ceramic, 200pF, 50V
CS05	1	DF16822010	Cap., Film, 8200pF, 50V
CS06	1	DF16822010	Cap., Film, 8200pF, 50V
JS01	1	YP10001130	Plug
JS02	1	YP10001130	Plug
JS03	1	YP10001130	Plug
JS04	1	YP10001130	Plug
JS05	1	YP10001130	Plug
JS06	1	YP10001130	Plug
JS07	1	YP10001130	Plug
JS08	1	YP10001130	Plug
JS09	1	YP10001130	Plug
JS10	1	YP10001130	Plug
JS11	1	YP10001130	Plug
JS12	1	YP10001130	Plug
JS13	1	YP10001130	Plug

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
JS14	1	YP10001130	Plug
JS15	1	YP10001130	Plug
JS16	1	YP10001130	Plug
JS17	1	YP10001130	Plug
JS18	1	YP10001130	Plug
JS19	1	YP10001130	Plug
JS20	1	YP10001130	Plug
JS21	1	YP10001130	Plug
JS22	1	YP10001130	Plug
JS23	1	YP10001130	Plug
PS01	1	YD39200040	P.W. Board, Switches
	1	ZZ39200040	P.W. Board Assembly
RS01	1	RT05123140	Res., Fixed, 12k Ω ±5%, ¼W
RS02	1	RT05123140	Res., Fixed, 12k Ω ±5%, ¼W
RS03	1	RT05154140	Res., Fixed, 150k Ω ±5%, ¼W
RS04	1	RT05154140	Res., Fixed, 150k Ω ±5%, ¼W
RS05	1	RT05102140	Res., Fixed, 1k Ω ±5%, ¼W
RS06	1	RT05102140	Res., Fixed, 1k Ω ±5%, ¼W
RS09	1	RT05472140	Res., Fixed, 4.7k Ω ±5%, ¼W
RS10	1	RT05472140	Res., Fixed, 4.7k Ω ±5%, ¼W
RS11	1	RT05225140	Res., Fixed, 2.2M Ω ±5%, ¼W
RS12	1	RT05225140	Res., Fixed, 2.2M Ω ±5%, ¼W
SS01	1	SP04050140	Pushswitch
CV51	1	DK18103010	Cap., Ceramic, 0.01 μ F, 50V
JV51	1	BY01050050	Jack, DIN
JV52	1	YP10001200	Plug
JV53	1	YP10001200	Plug
JV54	1	YP10001200	Plug
JV55	1	YP10001200	Plug
JV56	1	YP10001200	Plug
JV57	1	YP10001200	Plug
PV51	1	YD39170020	P.W. Board, Tape In/Out
	1	ZZ39532020	P.W. Board Assembly
RV51	1	RT05334140	Res., Fixed, 330k Ω ±5%, ¼W
RV52	1	RT05334140	Res., Fixed, 330k Ω ±5%, ¼W
RV53	1	RT05104140	Res., Fixed, 100k Ω ±5%, ¼W
RV54	1	RT05104140	Res., Fixed, 100k Ω ±5%, ¼W
C001	1	EA10701090	Cap., Elect., 100 μ F, 10V
C002	1	DK17103010	Cap., Ceramic, 0.01 μ F, 50V
C003	1	DK17103010	Cap., Ceramic, 0.01 μ F, 50V
C004	1	DK17103010	Cap., Ceramic, 0.01 μ F, 50V
C005	1	ES10905010	Cap., Elect., 10000 μ F, 50V
C006	1	DK18103510	Cap., Ceramic, 0.01 μ F, 500V
C007	1	DO07223510	Cap., Oil-Paper, 0.022 μ F, 450V
C008	1	DF17223800	Cap., Film, 0.022 μ F, 1000V
F001	1	FS10315800	Fuse, 3.15AT 250V (SEMKO)
H001	1	HT308972B0	Transistor, 2SC897 B or C
H002	1	HT308972B0	Transistor, 2SC897 B or C
H003	1	HT107572B0	Transistor, 2SA757 B or C
H004	1	HT107572B0	Transistor, 2SA757 B or C
H005	1	HV00005080	Varistor, STV-3H
H006	1	HV00005080	Varistor, STV-3H
H007	1	HD20005100	Diode, 5B-2
H008	1	HI10002030	L.E.D., SLP-131B (Stereo)
H009	1	HI10004030	L.E.D., SLP-132B (FM)
H010	1	HI10004030	L.E.D., SLP-132B (AM)
J001	1	YT01040190	Terminal, Antenna
J002	1	YT02060080	Terminal, Phono/Aux
J003	1	YL03010210	Terminal, Ground
J004	1	YT03040060	Terminal, Speaker

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
J005	1	YT03040060	Terminal, Speaker
J006	1	YT03040060	Terminal, Speaker
J007	1	YJ01001080	Jack, Phones
J008	1	YL01050300	Terminal, 5P
J009	1	YJ05000200	Jack
J010	1	YJ05000200	Jack
J011	1	YJ05000200	Jack
J012	1	YJ05000200	Jack
J013	1	YJ08000190	Jack, Lamp Socket
J014	1	YJ08000190	Jack, Lamp Socket
J015	1	YJ08000190	Jack, Lamp Socket
J016	1	YJ05000250	Jack, L.E.D. Socket
J017	1	YJ05000250	Jack, L.E.D. Socket
J018	1	YJ05000250	Jack, L.E.D. Socket
J019	1	YL09030010	Terminal, Power
J020	1	YJ08000220	Jack, Fuse Holder
J021	1	BY03110010	Plug, Voltage Selector
L001	1	LF11200510	Antenna Coil, AM
L002	1	TS19606060	Power Transformer
L003	1	LC13320020	Choke Coil, 3.3μH
M001	1	IM11055060	D.C. Meter, Tuning
R001	1	RM02540400	Res., Variable, 250kΩ, Volume
R002	1	RS05040030	Res., Variable, 500kΩ, Balance
R003	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R004	1	RT05122140	Res., Fixed, 1.2kΩ ±5%, ¼W
R005	1	RT05152140	Res., Fixed, 1.5kΩ ±5%, ¼W
R006	1	GJ05331020	Res., Fixed, 330Ω ±5%, 2W
R007	1	GJ05331020	Res., Fixed, 330Ω ±5%, 2W
R008	1	GJ05151010	Res., Fixed, 150Ω ±5%, 1W
R009	1	GJ05151010	Res., Fixed, 150Ω ±5%, 1W
S001	1	SR14050020	Rotary Switch, Selector
S002	1	SR08050370	Rotary Switch, Speaker
S003	1	SP04010250	Pushswitch, Power (SEMKO)
V001	1	IN10080420	Lamp, 8V 200mA (Meter)
V002	1	IN10080420	Lamp, 8V 200mA (Dial)
V003	1	IN10080420	Lamp, 8V 200mA (Dial)
W001	1	YC01900030	A.C. Power Cord
C101	1	CA32500020	Cap., Variable, FM-3/AM-2
C103	1	DD12100010	Cap., Ceramic, 10pF, 50V
C104	1	DK17102010	Cap., Ceramic, 1000pF, 50V
C105	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C106	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C107	1	DD12100010	Cap., Ceramic, 10pF, 50V
C108	1	DD12070030	Cap., Ceramic, 7pF, 50V
C109	1	DD15301020	Cap., Ceramic, 300pF, 50V
C110	1	DD16150030	Cap., Ceramic, 15pF, 50V
C111	1	DK17102010	Cap., Ceramic, 1000pF, 50V
C112	1	DK18403020	Cap., Ceramic, 0.04μF, 50V
C113	1	DD15200020	Cap., Ceramic, 20pF, 50V
C114	1	DD12070030	Cap., Ceramic, 7pF, 50V
C115	1	DD15200010	Cap., Ceramic, 20pF, 50V
C116	1	DD11030010	Cap., Ceramic, 3pF, 50V
C117	1	DD15200010	Cap., Ceramic, 20pF, 50V
C118	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C119	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C120	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C121	1	EV22403560	Cap., Elect., 0.22μF, 35V
C122	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C123	1	DD16501010	Cap., Ceramic, 500pF, 50V
C124	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C125	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C126	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C127	1	DD15200010	Cap., Ceramic, 20pF, 50V

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
C128	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C129	1	EA10601690	Cap., Elect., 10pF, 16V
C130	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C131	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C132	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C133	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C134	1	DD16101010	Cap., Ceramic, 100pF, 50V
C135	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C136	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C137	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C138	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C139	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C140	1	EA10601690	Cap., Elect., 10μF, 16V
C141	1	DD16201010	Cap., Ceramic, 200pF, 50V
C142	1	DD16201010	Cap., Ceramic, 200pF, 50V
C143	1	DD16101010	Cap., Ceramic, 100pF, 50V
C144	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C145	1	EA47601690	Cap., Elect., 47μF, 16V
C146	1	EA10601690	Cap., Elect., 10μF, 16V
C147	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C148	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C149	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C150	1	DD16101010	Cap., Ceramic, 100pF, 50V
C151	1	DK18203020	Cap., Ceramic, 0.02μF, 50V
C152	1	EA10505090	Cap., Elect., 1μF, 50V
C153	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C154	1	DD16250010	Cap., Ceramic, 25pF, 50V
F101	1	FF11070050	Ceramic Filter, 10.7MHz (SFE10.7 MD-1)
F102	1	FF11070050	Ceramic Filter, 10.7 MHz (SFE10.7 MD-1)
H101	1	HF200491H0	F.E.T., 2SK49 H
H102	1	HT310471B0	Transistor, 2SC1047 B
H103	1	HT313591B0	Transistor, 2SC1359 B
H104	1	HT308291C0	Transistor, 2SC829 C
H105	1	HT310471C0	Transistor, 2SC1047 C
H106	1	HT310471C0	Transistor, 2SC1047 C
H107	1	HT308291C0	Transistor, 2SC829 C
H108	1	HT308291D0	Transistor, 2SC829 D
H109	1	HT308291B0	Transistor, 2SC829 B
H110	1	HT308281C0	Transistor, 2SC828 R
H111	1	HT308281C0	Transistor, 2SC828 R
H112	1	HD10003030	Diode, 1S188FM
H113	1	HD10003030	Diode, 1S188FM
H114	1	HD20010010	Diode, 1S2076A
H115	1	HD20010010	Diode, 1S2076A
H116	1	HD10003020	Diode, 20A90M
H117	1	HD10003020	Diode, 20A90M
H118	1	HD10003030	Diode, 1S188FM
H119	1	HD10003030	Diode, 1S188FM
J101	1	YP10001140	Plug
J102	1	YP10001140	Plug
J103	1	YP10001140	Plug
J104	1	YP10001140	Plug
J105	1	YP10001140	Plug
J106	1	YP10001140	Plug
J107	1	YP10001140	Plug
J108	1	YP10001140	Plug
J109	1	YP10001140	Plug
J110	1	YP10001140	Plug
J112	1	YP10001140	Plug
J113	1	YP10001140	Plug
J114	1	YP10001140	Plug
J115	1	YP10001140	Plug

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
J117	1	YP10001140	Plug
J118	1	YP10001140	Plug
J119	1	YP10001140	Plug
J120	1	YP10001140	Plug
J121	1	YP10001140	Plug
J122	1	YP10001140	Plug
J123	1	YP10001140	Plug
J124	1	YP10001140	Plug
J125	1	YP10001140	Plug
J126	1	YP10001140	Plug
J131	1	YP10001140	Plug
J132	1	YP10001140	Plug
L101	1	LA12026120	Antenna Coil, FM
L102	1	LA12026100	Antenna Coil, FM
L103	1	LO12036010	OSC Coil, FM
L104	1	LC17510010	Choke Coil, 0.75μH
L105	1	LI10016010	I.F.T., FM
L106	1	LI14016230	I.F.T., FM
L107	1	LI10156020	I.F.T., FM
P100	1	YD39201010	P.W. Board, FM/AM Tuner
	1	ZZ39531010	P.W. Board Assembly
R101	1	RT05104140	Res., Fixed, 100kΩ ±5%, ¼W
R102	1	RT05105140	Res., Fixed, 1MΩ ±5%, ¼W
R103	1	RT05563140	Res., Fixed, 56kΩ ±5%, ¼W
R104	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R105	1	RT05105140	Res., Fixed, 1MΩ ±5%, ¼W
R106	1	RT05222140	Res., Fixed, 2.2kΩ ±5%, ¼W
R107	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R108	1	RT05822140	Res., Fixed, 8.2kΩ ±5%, ¼W
R109	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R110	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R111	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R112	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R113	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R114	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R115	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R116	1	RT05123140	Res., Fixed, 12kΩ ±5%, ¼W
R117	1	RT05182140	Res., Fixed, 1.8kΩ ±5%, ¼W
R118	1	RT05271140	Res., Fixed, 270Ω ±5%, ¼W
R119	1	RT05152140	Res., Fixed, 1.5kΩ ±5%, ¼W
R120	1	RT05273140	Res., Fixed, 27kΩ ±5%, ¼W
R121	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R122	1	RT05271140	Res., Fixed, 270Ω ±5%, ¼W
R123	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R124	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R125	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R126	1	RT05471140	Res., Fixed, 470Ω ±5%, ¼W
R127	1	RT05562140	Res., Fixed, 5.6kΩ ±5%, ¼W
R128	1	RT05152140	Res., Fixed, 1.5kΩ ±5%, ¼W
R129	1	RT05561140	Res., Fixed, 560Ω ±5%, ¼W
R130	1	RT05561140	Res., Fixed, 560Ω ±5%, ¼W
R131	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R132	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R133	1	RT05272140	Res., Fixed, 2.7kΩ ±5%, ¼W
R134	1	RT05123140	Res., Fixed, 12kΩ ±5%, ¼W
R135	1	RT05471140	Res., Fixed, 470Ω ±5%, ¼W
R136	1	RT05331140	Res., Fixed, 330Ω ±5%, ¼W
R137	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R138	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R139	1	RT05104140	Res., Fixed, 100kΩ ±5%, ¼W
R140	1	RT05153140	Res., Fixed, 15kΩ ±5%, ¼W

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
R141	1	RT05682140	Res., Fixed, 6.8kΩ ±5%, ¼W
R142	1	RT05681140	Res., Fixed, 680Ω ±5%, ¼W
R143	1	RT05821140	Res., Fixed, 820Ω ±5%, ¼W
R144	1	RT05821140	Res., Fixed, 820Ω ±5%, ¼W
R145	1	RT05821140	Res., Fixed, 820Ω ±5%, ¼W
R146	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R147	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R148	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R149	1	RT05183140	Res., Fixed, 18kΩ ±5%, ¼W
R150	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R152	1	RT05273140	Res., Fixed, 27kΩ ±5%, ¼W
R153	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R154	1	RT05100140	Res., Fixed, 10Ω ±5%, ¼W
R155	1	RT05822140	Res., Fixed, 8.2kΩ ±5%, ¼W
R156	1	RT05153140	Res., Fixed, 15kΩ ±5%, ¼W
R157	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R158	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R159	1	RT05273140	Res., Fixed, 27kΩ ±5%, ¼W
R160	1	RT05223140	Res., Fixed, 22kΩ ±5%, ¼W
R161	1	RA01040180	Res., Semifixed, 100kΩ(B)
R162	1	RT05223140	Res., Fixed, 22kΩ ±5%, ¼W
R163	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R164	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R165	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R166	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R167	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R168	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R169	1	RT05223140	Res., Fixed, 22kΩ ±5%, ¼W
R171	1	RT05303140	Res., Fixed, 30kΩ ±5%, ¼W
C202	1	DF65351010	Cap., Film, 350pF, 50V
C203	1	DD15200010	Cap., Ceramic, 20pF, 50V
C204	1	DF17103010	Cap., Film, 0.01μF, 50V
C205	1	DF17103010	Cap., Film, 0.01μF, 50V
C206	1	DF17103010	Cap., Film, 0.01μF, 50V
C207	1	EA10505090	Cap., Elect., 1μF, 50V
C208	1	EA47503590	Cap., Elect., 4.7μF, 35V
C209	1	EA33505090	Cap., Elect., 3.3μF, 50V
C210	1	DK17102010	Cap., Ceramic, 1000pF, 50V
C211	1	DF16822010	Cap., Film, 8200pF, 50V
C212	1	DF17103010	Cap., Film, 0.01μF, 50V
C213	1	EA10701690	Cap., Elect., 100μF, 16V
C214	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C215	1	EV22403560	Cap., Elect., 0.22μF, 35V
C216	1	EA10701690	Cap., Elect., 100μF, 16V
C217	1	DK18403020	Cap., Ceramic, 0.04μF, 25V
C218	1	DK17103010	Cap., Ceramic, 0.01μF, 50V
C219	1	DD15250020	Cap., Ceramic, 25pF, 50V
H201	1	LC10003010	I.C., HA1151
L201	1	LC11240020	Choke Coil, 120μH
L202	1	LO10010490	OSC Coil, AM
L203	1	LI10280030	I.F.T., AM
L204	1	LI10010640	I.F.T., AM
L206	1	LC21050010	Choke Coil, 1mH
R202	1	RT05562140	Res., Fixed, 5.6kΩ ±5%, ¼W
R204	1	RA01030250	Res., Semifixed, 10kΩ(B)
R205	1	RT05124140	Res., Fixed, 120kΩ ±5%, ¼W
R206	1	RT05152140	Res., Fixed, 1.5kΩ ±5%, ¼W
R207	1	RT05104140	Res., Fixed, 100kΩ ±5%, ¼W
R208	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R209	1	RT05301140	Res., Fixed, 300Ω ±5%, ¼W
R210	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R211	1	RT05272140	Res., Fixed, 2.7kΩ ±5%, ¼W
R212	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R213	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
R214	1	RT05432140	Res., Fixed, 4.3k Ω \pm 5%, $\frac{1}{4}$ W	R328	1	RT05272140	Res., Fixed, 2.7k Ω \pm 5%, $\frac{1}{4}$ W
R215	1	RT05334140	Res., Fixed, 330k Ω \pm 5%, $\frac{1}{4}$ W	C401	1	EV33501660	Cap., Elect., 3.3 μ F, 16V
R216	1	RT05473140	Res., Fixed, 47k Ω \pm 5%, $\frac{1}{4}$ W	C402	1	EV33501660	Cap., Elect., 3.3 μ F, 16V
C301	1	EA10601690	Cap., Elect., 10 μ F, 16V	C403	1	DD16101010	Cap., Ceramic, 100pF, 50V
C302	1	DF16222010	Cap., Film, 2200pF, 50V	C404	1	DD16101010	Cap., Ceramic, 100pF, 50V
C303	1	DF55471010	Cap., Film, 470pF, 50V	C405	1	EA10701090	Cap., Elect., 100 μ F, 10V
C304	1	EQ22405010	Cap., Elect., 0.22 μ F, 50V	C406	1	EA10701090	Cap., Elect., 100 μ F, 10V
C305	1	EQ47405010	Cap., Elect., 0.47 μ F, 50V	C407	1	DK17102010	Cap., Ceramic, 1000pF, 50V
C306	1	EQ22405010	Cap., Elect., 0.22 μ F, 50V	C408	1	DK17102010	Cap., Ceramic, 1000pF, 50V
C307	1	DF17473010	Cap., Film, 0.047 μ F, 50V	C409	1	DF15123010	Cap., Film, 0.012 μ F, 50V
C310	1	EA22701690	Cap., Elect., 220 μ F, 16V	C410	1	DF15123010	Cap., Film, 0.012 μ F, 50V
C311	1	DF16152010	Cap., Film, 1500pF, 50V	C411	1	DF15332010	Cap., Film, 3300pF, 50V
C312	1	DF16152010	Cap., Film, 1500pF, 50V	C412	1	DF15332010	Cap., Film, 3300pF, 50V
C313	1	DF15332010	Cap., Film, 3300pF, 50V	C413	1	EA10505050	Cap., Elect., 1 μ F, 50V
C314	1	DF15332010	Cap., Film, 3300pF, 50V	C415	1	EE10505050	Cap., Elect., 1 μ F, 50V
C315	1	DF16222010	Cap., Film, 2200pF, 50V	C416	1	EE10505050	Cap., Elect., 1 μ F, 50V
C316	1	DF16222010	Cap., Film, 2200pF, 50V	C417	1	EA10703590	Cap., Elect., 100 μ F, 35V
C317	1	DF55821020	Cap., Film, 820pF, 50V	H401	1	HC10012060	I.C., μ PC1024H
C318	1	DF55821020	Cap., Film, 820pF, 50V	H402	1	HC10012060	I.C., μ PC1024H
C319	1	DF16122010	Cap., Film, 1200pF, 50V	J401	1	YP10001130	Plug
C320	1	DF16122010	Cap., Film, 1200pF, 50V	J402	1	YP10001130	Plug
C321	1	DF15472010	Cap., Film, 4700pF, 50V	J403	1	YP10001130	Plug
C322	1	DF15472010	Cap., Film, 4700pF, 50V	J404	1	YP10001130	Plug
C323	1	EV47403560	Cap., Elect., 0.47 μ F, 35V	J405	1	YP10001130	Plug
C324	1	EV47403560	Cap., Elect., 0.47 μ F, 35V	J406	1	YP10001130	Plug
C325	1	EV47403560	Cap., Elect., 0.47 μ F, 35V	J407	1	YP10001130	Plug
C326	1	EV47403560	Cap., Elect., 0.47 μ F, 35V	J408	1	YP10001130	Plug
H301	1	HC10009060	I.C., MC1310P	P400	1	YD38960010	P.W. Board, Phono Amp
H302	1	HT105641B0	Transistor, 2SA564 Q		1	ZZ39511010	P.W. Board Assembly
H303	1	HT308281C0	Transistor, 2SC828 R	R401	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
H304	1	HT308281C0	Transistor, 2SC828 R	R402	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W
H305	1	HT308281C0	Transistor, 2SC828 R	R403	1	RT05511140	Res., Fixed, 510 Ω \pm 5%, $\frac{1}{4}$ W
H306	1	HT105641B0	Transistor, 2SA564 Q	R404	1	RT05511140	Res., Fixed, 510 Ω \pm 5%, $\frac{1}{4}$ W
H307	1	HT105641B0	Transistor, 2SA564 Q	R405	1	RT05623140	Res., Fixed, 62k Ω \pm 5%, $\frac{1}{4}$ W
L301	1	LS10290150	M.P.X. Coil	R406	1	RT05623140	Res., Fixed, 62k Ω \pm 5%, $\frac{1}{4}$ W
L302	1	LS10290150	M.P.X. Coil	R407	1	RT05274140	Res., Fixed, 270k Ω \pm 5%, $\frac{1}{4}$ W
L303	1	LC22260010	Choke Coil	R408	1	RT05274140	Res., Fixed, 270k Ω \pm 5%, $\frac{1}{4}$ W
L304	1	LC22260010	Choke Coil	R409	1	RT05184140	Res., Fixed, 180k Ω \pm 5%, $\frac{1}{4}$ W
R301	1	RA01030250	Res., Semifixed, 10k Ω (B)	R410	1	RT05184140	Res., Fixed, 180k Ω \pm 5%, $\frac{1}{4}$ W
R302	1	RA05020200	Res., Semifixed, 5k Ω (B)	R411	1	RT05274140	Res., Fixed, 270k Ω \pm 5%, $\frac{1}{4}$ W
R303	1	RT05183140	Res., Fixed, 18k Ω \pm 5%, $\frac{1}{4}$ W	R412	1	RT05274140	Res., Fixed, 270k Ω \pm 5%, $\frac{1}{4}$ W
R304	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W	R413	1	RT05223140	Res., Fixed, 22k Ω \pm 5%, $\frac{1}{4}$ W
R305	1	RT05102140	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{4}$ W	R414	1	RT05223140	Res., Fixed, 22k Ω \pm 5%, $\frac{1}{4}$ W
R307	1	RT05122140	Res., Fixed, 1.2k Ω \pm 5%, $\frac{1}{4}$ W	R415	1	RT05681140	Res., Fixed, 680 Ω \pm 5%, $\frac{1}{4}$ W
R308	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W	R416	1	RT05681140	Res., Fixed, 680 Ω \pm 5%, $\frac{1}{4}$ W
R309	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W	R417	1	RT05473140	Res., Fixed, 47k Ω \pm 5%, $\frac{1}{4}$ W
R310	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W	R418	1	RT05473140	Res., Fixed, 47k Ω \pm 5%, $\frac{1}{4}$ W
R311	1	RT05392140	Res., Fixed, 3.9k Ω \pm 5%, $\frac{1}{4}$ W	R419	1	RT05223140	Res., Fixed, 22k Ω \pm 5%, $\frac{1}{4}$ W
R312	1	RT05392140	Res., Fixed, 3.9k Ω \pm 5%, $\frac{1}{4}$ W	R420	1	RT05223140	Res., Fixed, 22k Ω \pm 5%, $\frac{1}{4}$ W
R313	1	RT05562140	Res., Fixed, 5.6k Ω \pm 5%, $\frac{1}{4}$ W	R421	1	GF05221140	Res., Fixed, 220 Ω \pm 5%, $\frac{1}{4}$ W
R314	1	RT05562140	Res., Fixed, 5.6k Ω \pm 5%, $\frac{1}{4}$ W	R422	1	RT05184140	Res., Fixed, 180k Ω \pm 5%, $\frac{1}{4}$ W
R315	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W	C701	1	EE33502550	Cap., Elect., 3.3 μ F, 25V
R316	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W	C702	1	EE33502550	Cap., Elect., 3.3 μ F, 25V
R317	1	RT05105140	Res., Fixed, 1M Ω \pm 5%, $\frac{1}{4}$ W	C703	1	DD16201010	Cap., Ceramic, 200pF, 50V
R318	1	RT05105140	Res., Fixed, 1M Ω \pm 5%, $\frac{1}{4}$ W	C704	1	DD16201010	Cap., Ceramic, 200pF, 50V
R319	1	RT05563140	Res., Fixed, 56k Ω \pm 5%, $\frac{1}{4}$ W	C705	1	EE47601650	Cap., Elect., 47 μ F, 16V
R320	1	RT05563140	Res., Fixed, 56k Ω \pm 5%, $\frac{1}{4}$ W	C706	1	EE47601650	Cap., Elect., 47 μ F, 16V
R321	1	RT05222140	Res., Fixed, 2.2k Ω \pm 5%, $\frac{1}{4}$ W	C707	1	DD11050500	Cap., Ceramic, 5pF, 500V
R322	1	RT05222140	Res., Fixed, 2.2k Ω \pm 5%, $\frac{1}{4}$ W	C708	1	DD11050500	Cap., Ceramic, 5pF, 500V
R323	1	RT05682140	Res., Fixed, 6.8k Ω \pm 5%, $\frac{1}{4}$ W	C709	1	EA47605090	Cap., Elect., 47 μ F, 50V
R324	1	RT05682140	Res., Fixed, 6.8k Ω \pm 5%, $\frac{1}{4}$ W	C710	1	EA47605090	Cap., Elect., 47 μ F, 50V
R325	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W				
R326	1	RT05224140	Res., Fixed, 220k Ω \pm 5%, $\frac{1}{4}$ W				
R327	1	GJ05152010	Res., Fixed, 1.5k Ω \pm 5%, 1W				

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
C711	1	DK16101500	Cap., Ceramic, 100pF, 500V
C712	1	DK16101500	Cap., Ceramic, 100pF, 500V
C713	1	DF17104520	Cap., Film, 0.1μF, 200V
C714	1	DF17104520	Cap., Film, 0.1μF, 200V
C715	1	EA22705090	Cap., Elect., 200μF, 50V
C716	1	EA10603590	Cap., Elect., 10μF, 35V
F701	1	FS10350800	Fuse, 3.5AT 250V (SEMKO)
F702	1	FS10350800	Fuse, 3.5AT 250V (SEMKO)
H701	1	HT108362B0	Transistor, 2SA836 E or F
H702	1	HT108362B0	Transistor, 2SA836 E or F
H703	1	HT108362B0	Transistor, 2SA836 E or F
H704	1	HT108362B0	Transistor, 2SA836 E or F
H705	1	HD20010010	Diode, 1S2076A
H706	1	HD20010010	Diode, 1S2076A
H707	1	HT318853C0	Transistor, 2SC1885 R, S or T
H708	1	HT318853C0	Transistor, 2SC1885 R, S or T
H709	1	HT309451Q0	Transistor, 2SC945 Q
H710	1	HT309451Q0	Transistor, 2SC945 Q
H711	1	HT107331Q0	Transistor, 2SA733 Q
H712	1	HT107331Q0	Transistor, 2SA733 Q
H713	1	HD20010010	Diode, 1S2076A
H714	1	HD20010010	Diode, 1S2076A
H715	1	HD20010010	Diode, 1S2076A
H716	1	HD20010010	Diode, 1S2076A
H717	1	HD20010010	Diode, 1S2076A
H718	1	HD20010010	Diode, 1S2076A
H719	1	HD20010010	Diode, 1S2076A
H720	1	HD20010010	Diode, 1S2076A
H721	1	HT315672B0	Transistor, 2SC1567 Q or R
H722	1	HT315672B0	Transistor, 2SC1567 Q or R
H723	1	HT107942B0	Transistor, 2SA794 Q or R
H724	1	HT107942B0	Transistor, 2SA794 Q or R
H725	1	HD30030090	Zener, WZ-177
H726	1	HD20010010	Diode, 1S2076A
H727	1	HD20010010	Diode, 1S2076A
H728	1	HD20005010	Diode, W06B
H729	1	HD20005010	Diode, W06B
H730	1	HD20005010	Diode, W06B
H731	1	HD20005010	Diode, W06B
J701	1	YP10001130	Plug
J702	1	YP10001130	Plug
J703	1	YP10001130	Plug
J704	1	YP10001130	Plug
J705	1	YP10001130	Plug
J706	1	YP10001130	Plug
J707	1	YP10001130	Plug
J708	1	YP10001130	Plug
J709	1	YP10001130	Plug
J710	1	YP10001130	Plug
J711	1	YP10001130	Plug
J712	1	YP10001130	Plug
J713	1	YP10001130	Plug
J714	1	YP10001130	Plug
J715	1	YP10001130	Plug
J716	1	YP10001130	Plug
J717	1	YP10001130	Plug
J718	1	YP10001130	Plug
J719	1	YP10001130	Plug
J720	1	YP10001130	Plug
J721	1	YP10001130	Plug
J722	1	YP10001130	Plug
J723	1	YP10001130	Plug
J724	1	YP10001130	Plug
J725	1	YP10001130	Plug

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
J726	1	YP10001130	Plug
J727	1	YJ08000210	Jack
J728	1	YJ08000210	Jack
J729	1	YJ08000210	Jack
J730	1	YJ08000210	Jack
J731	1	YP10001130	Plug
J732	1	YP10001130	Plug
L701	1	LC22620010	Choke Coil, 2.6μH
L702	1	LC22620010	Choke Coil, 2.6μH
P700	1	YD39201030	P.W. Board, Main Amp
	1	ZZ39531030	P.W. Board Assembly
R701	1	RT05202140	Res., Fixed, 2kΩ ±5%, ¼W
R702	1	RT05202140	Res., Fixed, 2kΩ ±5%, ¼W
R703	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R704	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R705	1	RT05682140	Res., Fixed, 6.8kΩ ±5%, ¼W
R706	1	RT05682140	Res., Fixed, 6.8kΩ ±5%, ¼W
R707	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R708	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R709	1	RT05822140	Res., Fixed, 8.2kΩ ±5%, ¼W
R710	1	RT05822140	Res., Fixed, 8.2kΩ ±5%, ¼W
R711	1	RA05020250	Res., Semifixed, 5kΩ(B)
R712	1	RA05020250	Res., Semifixed, 5kΩ(B)
R713	1	RT05183140	Res., Fixed, 18kΩ ±5%, ¼W
R714	1	RT05183140	Res., Fixed, 18kΩ ±5%, ¼W
R715	1	RT05154140	Res., Fixed, 150kΩ ±5%, ¼W
R716	1	RT05154140	Res., Fixed, 150kΩ ±5%, ¼W
R717	1	RT05302140	Res., Fixed, 3kΩ ±5%, ¼W
R718	1	RT05302140	Res., Fixed, 3kΩ ±5%, ¼W
R719	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R720	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R721	1	GF05330140	Res., Fixed, 33Ω ±5%, ¼W
R722	1	GF05330140	Res., Fixed, 33Ω ±5%, ¼W
R723	1	GF05221140	Res., Fixed, 220Ω ±5%, ¼W
R724	1	GF05221140	Res., Fixed, 220Ω ±5%, ¼W
R725	1	RT05242140	Res., Fixed, 2.4kΩ ±5%, ¼W
R726	1	RT05242140	Res., Fixed, 2.4kΩ ±5%, ¼W
R727	1	RT05472140	Res., Fixed, 4.7kΩ ±5%, ¼W
R728	1	RT05472140	Res., Fixed, 4.7kΩ ±5%, ¼W
R729	1	RT05750140	Res., Fixed, 75Ω ±5%, ¼W
R730	1	RT05750140	Res., Fixed, 75Ω ±5%, ¼W
R731	1	HH00003030	Thermistor, STD-04
R732	1	HH00003030	Thermistor, STD-04
R733	1	RA03010030	Res., Semifixed, 300Ω(B)
R734	1	RA03010030	Res., Semifixed, 300Ω(B)
R735	1	RT05391140	Res., Fixed, 390Ω ±5%, ¼W
R736	1	RT05391140	Res., Fixed, 390Ω ±5%, ¼W
R737	1	GF05151140	Res., Fixed, 150Ω ±5%, ¼W
R738	1	GF05151140	Res., Fixed, 150Ω ±5%, ¼W
R739	1	GF05201140	Res., Fixed, 200Ω ±5%, ¼W
R740	1	GF05201140	Res., Fixed, 200Ω ±5%, ¼W
R741	1	GF05132140	Res., Fixed, 1.3kΩ ±5%, ¼W
R742	1	GF05132140	Res., Fixed, 1.3kΩ ±5%, ¼W
R743	1	GF05392140	Res., Fixed, 3.9kΩ ±5%, ¼W
R744	1	GF05392140	Res., Fixed, 3.9kΩ ±5%, ¼W
R745	1	GF05132140	Res., Fixed, 1.3kΩ ±5%, ¼W
R746	1	GF05132140	Res., Fixed, 1.3kΩ ±5%, ¼W
R747	1	GF05101140	Res., Fixed, 100Ω ±5%, ¼W
R748	1	GF05101140	Res., Fixed, 100Ω ±5%, ¼W
R749	1	GF05101140	Res., Fixed, 100Ω ±5%, ¼W
R750	1	GF05101140	Res., Fixed, 100Ω ±5%, ¼W

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
R751	1	GF05100140	Res., Fixed, 10 Ω \pm 5%, $\frac{1}{4}$ W
R752	1	GF05100140	Res., Fixed, 10 Ω \pm 5%, $\frac{1}{4}$ W
R753	1	GF05221120	Res., Fixed, 220 Ω \pm 5%, $\frac{1}{2}$ W
R754	1	GF05221120	Res., Fixed, 220 Ω \pm 5%, $\frac{1}{2}$ W
R755	1	GF05221120	Res., Fixed, 220 Ω \pm 5%, $\frac{1}{2}$ W
R756	1	GF05221120	Res., Fixed, 220 Ω \pm 5%, $\frac{1}{2}$ W
R757	1	GF05100140	Res., Fixed, 10 Ω \pm 5%, $\frac{1}{4}$ W
R758	1	GF05100140	Res., Fixed, 10 Ω \pm 5%, $\frac{1}{4}$ W
R759	1	RW10005030	Res., Fixed, 0.5 Ω \pm 10%, 3W
R760	1	RW10005030	Res., Fixed, 0.5 Ω \pm 10%, 3W
R761	1	RW10005030	Res., Fixed, 0.5 Ω \pm 10%, 3W
R762	1	RW10005030	Res., Fixed, 0.5 Ω \pm 10%, 3W
R763	1	GJ05100020	Res., Fixed, 10 Ω \pm 5%, 2W
R764	1	GJ05100020	Res., Fixed, 10 Ω \pm 5%, 2W
R765	1	GF05220140	Res., Fixed, 22 Ω \pm 5%, $\frac{1}{4}$ W
R766	1	GF05102120	Res., Fixed, 1k Ω \pm 5%, $\frac{1}{2}$ W
R767	1	RC10022120	Res., Fixed, 2.2 Ω \pm 10%, $\frac{1}{2}$ W
R768	1	RC10022120	Res., Fixed, 2.2 Ω \pm 10%, $\frac{1}{2}$ W
C801	1	EA33706310	Cap., Elect., 330 μ F, 63V
C802	1	EA10705090	Cap., Elect., 100 μ F, 50V
C803	1	DK18103510	Cap., Ceramic, 0.01 μ F, 500V
C804	1	DK17103010	Cap., Ceramic, 0.01 μ F, 50V
C805	1	EA10603590	Cap., Elect., 10 μ F, 35V
C806	1	EA10705090	Cap., Elect., 100 μ F, 50V
C807	1	EA33703590	Cap., Elect., 330 μ F, 35V
C808	1	DK17103010	Cap., Ceramic, 0.01 μ F, 50V
C809	1	EA10701690	Cap., Elect., 100 μ F, 16V
C810	1	EA10605090	Cap., Elect., 10 μ F, 50V
H801	1	HT403302A0	Transistor, 2SD330 D or E
H802	1	HT313183A0	Transistor, 2SC1318 P, Q or R
H803	1	HD20011030	Diode, DS131B
H804	1	HD30023090	Zener, WZ-071
H805	1	HD30027090	Zener, WZ-140
H806	1	HD20013100	Diode, 10D-1
J801	1	YP10001130	Plug
J802	1	YP10001130	Plug
J803	1	YP10001130	Plug
J804	1	YP10001130	Plug
J805	1	YP10001130	Plug
J806	1	YP10001130	Plug
J807	1	YP10001130	Plug
J808	1	YP10001130	Plug
J809	1	YP10001130	Plug
J810	1	YP10001130	Plug
J811	1	YP10001130	Plug
P800	1	YD39201040	P.W. Board, Power Supply
	1	ZZ39531040	P.W. Board Assembly
R801	1	GF05330140	Res., Fixed, 33 Ω \pm 5%, $\frac{1}{4}$ W
R802	1	RT05472140	Res., Fixed, 4.7k Ω \pm 5%, $\frac{1}{4}$ W
R803	1	RT05472140	Res., Fixed, 4.7k Ω \pm 5%, $\frac{1}{4}$ W
R804	1	GF05392140	Res., Fixed, 3.9k Ω \pm 5%, $\frac{1}{4}$ W
R805	1	RT05363140	Res., Fixed, 36k Ω \pm 5%, $\frac{1}{4}$ W
R806	1	RA05020200	Res., Semifixed, 5k Ω (B)
R807	1	GF05101120	Res., Fixed, 100 Ω \pm 5%, $\frac{1}{2}$ W
R808	1	GJ05391030	Res., Fixed, 390 Ω \pm 5%, 3W
R809	1	GJ05221020	Res., Fixed, 220 Ω \pm 5%, 2W
R811	1	RT05822140	Res., Fixed, 8.2k Ω \pm 5%, $\frac{1}{4}$ W

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